

**WHAT IS CLAIMED IS:**

1. A transmission joint sealing boot for use with a transmission joint, the transmission joint sealing boot comprising:  
a body portion having a central inner cavity defined by an inner wall, a first end having a mating surface connecting with the transmission joint and a second end disposed opposite said first end wherein said body portion is manufactured from a foam based material.
2. A transmission joint sealing boot as in claim 1 wherein said foam based material is foam rubber.
3. A transmission joint sealing boot as in claim 1 wherein said foam based material is a closed cell material.
4. A transmission as in claim 1 wherein said foam based material is a closed cell silicone material.
5. A transmission joint sealing boot as in claim 1 wherein said first end mating surface includes a cage section which is shaped to mate with a cage of said transmission joint and an outer race section which is shaped to mate with an outer race of said transmission joint.
6. A transmission joint sealing boot as in claim 1 wherein said foam based material has a density in a range from 10 kg/m<sup>3</sup> to 27 kg/m<sup>3</sup>.
7. A transmission joint sealing boot as in claim 1, wherein said foam based material is heat resistant to 450° Fahrenheit.

8. A constant velocity joint boot for use with a constant velocity joint and an interconnecting shaft, said constant velocity joint boot comprising:

a body portion having a central inner cavity defined by an inner wall, said inner cavity having a circumference smaller than the circumference of said interconnecting shaft, a first end having a mating surface contacting the constant velocity joint and a second end disposed opposite said first end and contacting said interconnecting shaft, wherein said body portion is manufactured from a foam based material.

9. A constant velocity joint boot as in claim 7 wherein said foam based material is foam rubber.

10. A constant velocity joint boot as in claim 7 wherein said foam based material is a closed cell material.

11. A constant velocity joint boot as in claim 7 wherein said foam based material is a closed cell silicone material.

12. A constant velocity joint boot as in claim 7 wherein said first end mating surface includes a cage section which is shaped to mate with a cage of said constant velocity joint and an outer race section which is shaped to mate with an outer race of said constant velocity joint.

13. A constant velocity joint boot as in claim 7 wherein said foam based material has a density in a range from 10 kg/m<sup>3</sup> to 27 kg/m<sup>3</sup>.

14. A constant velocity joint boot as in claim 7, wherein said foam based material is heat resistant to 450° Fahrenheit.

15. A constant velocity joint boot for use with a constant velocity joint and an interconnecting shaft, said constant velocity joint boot comprising:

a body portion having a central inner cavity defined by an inner wall, said inner cavity having a circumference smaller than the circumference of said interconnecting shaft, an outer wall defining at least one convolute, said body portion also including a first end having a mating surface contacting the constant velocity joint and a second end disposed opposite said first end and contacting said interconnecting shaft, wherein said body portion is manufactured from a foam based material.

16. A constant velocity joint boot as in claim 15 wherein said foam based material is foam rubber.

17. A constant velocity joint boot as in claim 15 wherein said foam based material is a closed cell material.

18. A constant velocity joint boot as in claim 15 wherein said foam based material is a closed cell silicone material

19. A constant velocity joint boot as in claim 15 wherein said first end mating surface includes a cage section which is shaped to mate with a cage of said constant velocity joint and an outer race section which is shaped to mate with an outer race of said constant velocity joint.

20. A constant velocity joint boot as in claim 15 wherein said foam based material has a density in a range from 10 kg/m<sup>3</sup> to 27 kg/m<sup>3</sup>.

21. A constant velocity joint boot as in claim 15, wherein said foam based material is heat resistant to 450° Fahrenheit.